

CONTINUOUS SURFACE PREPARATION OF METALS

ABSTRACT OF THE DISCLOSURE

Apparatus and process for continuous surface preparation of metal materials. The metal material is grit-blasted with a mixture of fine particles of aluminum oxide in air and water. The metal material is rinsed with water to remove the grit. The metal material is subjected to a caustic solution of sodium hydroxide and then rinsed with water to remove the caustic solution of sodium hydroxide. A sol-gel coating is applied to the metal material and the water portion of the sol-gel coating is evaporated. A liquid adhesive coating is applied to the sol-gel coating on the metal material and the solvent portion of the adhesive coating is evaporated.